

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Mr. James Filippini Mr. Douglas Lamb Water Division Compliance Branch United States Environmental Protection Agency, Region V 77 West Jackson Boulevard (WC-15J) Chicago, Illinois 60604-3590

September 26, 2016 PJ/DW

Subject:

Annual Dock Wall Observation and Repair

Consent Decree - Case No. 2:96-CV-96-RL-1

ArcelorMittal Burns Harbor LLC

Dear Messrs. Filippini and Lamb:

Attachment 1 is the summary report of the annual dock wall inspection for 2016. This document summarizes the results of the annual dock wall observation that was conducted on August 23, 30, and September 6, 2016, by Weaver Consultants Group, contractor to ArcelorMittal Burns Harbor, as required by Paragraph 21 of the subject decree.

During the annual observations, twenty five (25) locations were found along the dock wall with discernible discharges of flowing water. Notification regarding these findings was made via e-mail to Ms. Susan Prout (EPA Region V, Office of Regional Counsel) by T. E. Kirk on August 23, and September 7, 2016. Originally, 26 discharges were reported. However, the discharge recorded as #5 did not have a discernable discharge that could be sampled. As a result, no information is available for #5. It has been marked and will be repaired with along with the discernable discharges.

All but one of the locations were found in the coffer dam section of the dock wall. The height above the Lake Michigan level and the estimated flow from each location are noted in Attachment 1.

Samples were obtained from all locations and submitted to a contract analytical laboratory for nitrogenammonia analysis. The reports of these analyses are provided in Attachment 2. The results are also summarized in Attachment 1 and used to estimate the amount of ammonia discharged, on a daily basis, from these locations. Digital photographs of each of the locations were also obtained and are provided in Attachment 3.



Repairs have been contracted and are expected to begin by mid-October. Due to heavy boat traffic, an estimated date of completion of repairs is not yet available. Photographs of the locations after repair/sealing will be provided in a separate report.

No one particular cause for the discharges was identified. Because almost all of the discharges were observed along the coffer dam section of the harbor wall and the nitrogen-ammonia concentrations of most of the discharges are well below the concentration of the groundwater being captured by the dewatering well system (i.e., average of 6.7 mg/L for the previous 12 months), it is surmised that these concrete cellular revetments were discharging accumulated stormwater runoff that had inadvertently seeped through the caps of these structures. Therefore, the source of the water is not groundwater that is adequately being controlled by the dewatering well system. Based on the ammonia concentrations and estimated flow rates summarized in Attachment 1, approximately sixty seven one hundredths of a pound per day (0.67 lbs/day) of ammonia is being discharged to the harbor from all 8 locations. Notwithstanding, Burns Harbor has responded as quickly as possible to the identification of the locations in order to timely minimize and/or eliminate any potential impact.

If there are any questions concerning this matter, please contact T. E. Kirk or me at (219) 787-2712.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Very truly yours,

R. A. Maciel, Manager

Environmental Management Department

Attachments

ArcelorMittal Burns Harbor, LLC Annual Dock Wall Observation Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 1 – Summary Report of the 2016 Annual Dock Wall Inspection

ArcelorMittal Burns Harbor, LLC August 23, 30, and September 6, 2016 Dock Wall Inspection Performed by: Weaver Boos Consultants

ID Number	Height Above Water (feet)	Estimated Flow Rate (Liters/minute)	Estimated Flow (Gal/Min)	Ammonia Concentration* (mg/L)	Ammonia Dischage (Pounds/day)	Date of Repair
16-1	5	0.14	0.04	0.66	<0.001	TBD
16-2	3	0.1	0.03	5.4	0.002	TBD
16-3	5	0.08	0.02	2.4	0.001	TBD
16-4	5	0.8	0.02	5.2	0.013	TBD
16-6	2	1.5	0.40	2.7	0.013	TBD
16-7	5	8	2.11	2.4	0.061	TBD
16-8	0.5	11.36	3.00	2.8	0.101	TBD
16-9	5	2.5	0.66	2.5	0.020	TBD
16-10	5	13	3.43	2.2	0.091	TBD
16-11	3.5	2.5	0.66	1	1.008	TBD
16-12	3.5	39	10.30	1.1	0.136	TBD
16-13	3.5	21.5	5.68	1.2	0.082	TBD
16-14	4.5	3.7	0.98	1.3	0.015	TBD
16-15	5	15.14	4.00	0.41	0.020	TBD
16-16	5	0.12	0.03	1.7	0.001	TBD
16-17	4.5	2.28	0.60	1.2	0.009	TBD
16-18	2.5	0.6	0.16	0.25	< 0.001	TBD
16-19	2.5	0.28	0.07	0.6	0.001	TBD
16-20	2.5	0.88	0.23	0.45	0.001	TBD
16-21	3.5	0.88	0.23	0.53	0.001	TBD
16-22	5	0.12	0.03	0.33	< 0.001	TBD
16-23	3.5	2	0.53	2.7	0.017	TBD
16-24	5	0.24	0.06	1.9	0.001	TBD
16-25	4	3.79	1.00	5.0	0.060	TBD
16-26	4	0.88	0.23	4.8	0.013	TBD

Total Potential Ammonia Discharge (pounds per day) from all locations:

^{*} Results reported are the larger of the sample and duplicate analysis.

ArcelorMittal Burns Harbor, LLC Annual Dock Wall Observation Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 2 – Nitrogen Ammonia Analytical Results



Work Order No.: 16H1697

August 30, 2016

Arcelor Mittal USA, Inc. 250 W US Highway 12 Burns Harbor, IN 46304-9745

Re: Dock Wall Inspection

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 8 sample(s) on 8/24/2016 9:35:00AM for the analyses presented in the following report as Work Order 16H1697.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Carry Hadgala

Carey Gadzala Project Manager



WORK ORDER SAMPLE SUMMARY

Date: Tuesday, August 30, 2016

Client: Arcelor Mittal USA, Inc.
Project: Dock Wall Inspection

Lab Order: 16H1697

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received	
16H1697-01	16-1		08/23/2016 09:02	8/24/2016 9:35:00AM	
16H1697-02	16-2		08/23/2016 09:50	8/24/2016 9:35:00AM	
16H1697-03	16-3		08/23/2016 12:26	8/24/2016 9:35:00AM	
16H1697-04	16-4		08/23/2016 13:35	8/24/2016 9:35:00AM	
16H1697-05	16-1D		08/23/2016 09:02	8/24/2016 9:35:00AM	
16H1697-06	16-2D		08/23/2016 09:50	8/24/2016 9:35:00AM	
16H1697-07	16-3D		08/23/2016 12:26	8/24/2016 9:35:00AM	
16H1697-08	16-4D		08/23/2016 13:35	8/24/2016 9:35:00AM	



Client: Arcelor Mittal USA, Inc.

 Client Project:
 Dock Wall Inspection
 Work Order/ID:
 16H1697-01

 Client Sample ID:
 16-1
 Sampled:
 08/23/2016
 9:02

Sample Description: Received: 08/24/2016 9:35

Matrix: Aqueous

Certs AT Result RL**Analyses** Qual Units DF Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Method: Aqueous Ammonia Distillation Prep Date/Time: 08/29/2016 08:25 Nitrogen, Ammonia as N 0.64 mg/L 08/29/2016 11:07 Nitrogen, Ammonia (As N) di Α 0.10



Client: Arcelor Mittal USA, Inc.

 Client Project:
 Dock Wall Inspection
 Work Order/ID:
 16H1697-02

 Client Sample ID:
 16-2
 Sampled:
 08/23/2016
 9:50

 Sample Description:
 Received:
 08/24/2016
 9:35

Sample Description:
Matrix: Aqueous

Analyses Certs AT Result RL Qual Units DF Analyzed

 Method: EPA 350.1 Rev 2.0
 Analyst: GRIEFF

 Nitrogen, Ammonia as N
 Prep Method: Aqueous Ammonia Distillation
 Prep Date/Time: 08/29/2016 08:25

 Nitrogen, Ammonia (As N)
 di
 A
 5.4
 0.10
 mg/L
 1
 08/29/2016 11:12



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Project:
 Dock Wall Inspection
 Work Order/ID:
 16H1697-03

 Client Sample ID:
 16-3
 Sampled:
 08/23/2016
 12:26

Sample Description: Received: 08/24/2016 9:35

Matrix: Aqueous

Analyses Certs AT Result RL Qual Units DF Analyzed

 Method: EPA 350.1 Rev 2.0
 Analyst: GRIEFF

 Nitrogen, Ammonia as N
 Prep Method: Aqueous Ammonia Distillation
 Prep Date/Time: 08/29/2016 08:25

 Nitrogen, Ammonia (As N)
 di
 A
 2.4
 0.10
 mg/L
 1
 08/29/2016 11:14



Client: Arcelor Mittal USA, Inc.

 Client Project:
 Dock Wall Inspection
 Work Order/ID:
 16H1697-04

 Client Sample ID:
 16-4
 Sampled:
 08/23/2016
 13:35

Sample Description: Received: 08/24/2016 9:35

Matrix: Aqueous

Certs AT Result RL**Analyses** Qual Units DF Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Method: Aqueous Ammonia Distillation Prep Date/Time: 08/29/2016 08:25 Nitrogen, Ammonia as N mg/L 08/29/2016 11:16 Nitrogen, Ammonia (As N) di Α 4.8 0.10



Arcelor Mittal USA, Inc. Client:

Aqueous

Matrix:

Dock Wall Inspection Client Project: Work Order/ID: 16H1697-05 16-1D 08/23/2016 9:02 **Client Sample ID:** Sampled: 08/24/2016 9:35

Received:

Sample Description:

Certs AT Result RL**Analyses** Qual Units DF Analyzed

Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Method: Aqueous Ammonia Distillatio: Prep Date/Time: 08/29/2016 08:25 Nitrogen, Ammonia as N 0.66 mg/L 08/29/2016 11:18 Nitrogen, Ammonia (As N) di Α 0.10



Arcelor Mittal USA, Inc. Client:

Dock Wall Inspection Client Project: Work Order/ID: 16H1697-06 16-2D 08/23/2016 9:50 **Client Sample ID:** Sampled:

Sample Description:

08/24/2016 9:35 Received: Matrix: Aqueous

Certs AT Result RL**Analyses** Qual Units DF Analyzed

Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Method: Aqueous Ammonia Distillatio: Prep Date/Time: 08/29/2016 08:25 Nitrogen, Ammonia as N 5.1 mg/L 08/29/2016 11:24 Nitrogen, Ammonia (As N) di Α 0.10



Client: Arcelor Mittal USA, Inc.

 Client Project:
 Dock Wall Inspection
 Work Order/ID:
 16H1697-07

 Client Sample ID:
 16-3D
 Sampled:
 08/23/2016
 12:26

 Sample Description:
 Received:
 08/24/2016
 9:35

Sample Description:
Matrix: Aqueous

Analyses Certs AT Result RL Qual Units DF Analyzed

 Method: EPA 350.1 Rev 2.0
 Analyst: GRIEFF

 Nitrogen, Ammonia as N
 Prep Method: Aqueous Ammonia Distillation
 Prep Date/Time: 08/29/2016 08:25

 Nitrogen, Ammonia (As N)
 di
 A
 2.4
 0.10
 mg/L
 1
 08/29/2016 11:26



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Project:
 Dock Wall Inspection
 Work Order/ID:
 16H1697-08

 Client Sample ID:
 16-4D
 Sampled:
 08/23/2016
 13:35

Sample Description: Received: 08/24/2016 9:35

Matrix: Aqueous

Certs AT Result RL**Analyses** Qual Units DF Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Method: Aqueous Ammonia Distillatio: Prep Date/Time: 08/29/2016 08:25 Nitrogen, Ammonia as N 5.2 mg/L 08/29/2016 11:28 Nitrogen, Ammonia (As N) di Α 0.10



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

- $\ensuremath{\mathsf{B}}$ = Detected in the associated method Blank at a concentration above the routine RL
- b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL
- b* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

ICSA = Interference Check Standard "A" BLK = Method Blank DUP = Method Duplicate ICSAB = Interference Check Standard "AB" BS = Method Blank Spike BSD = Method Blank Spike Duplicate MSD = Matrix Spike Duplicate MS = Matrix Spike ICB = Initial Calibration Blank ICV = Initial Calibration Verification CCB = Continuing Calibration Blank CCV = Continuing Calibration Verification CRL = Client Required Reporting Limit OPR = Ongoing Precision and Recovery Standard PDS = Post Digestion Spike SD = Serial Dilution

QCS = Quality Control Standard

OFFICIONE (O--t-)

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- i Kansas Dept Health & Env. NELAP (#E-10397)



COOLER INSPEC	CTION				Date:	Tuesda	ay, August 30,	2016	
Client Name: Arcelor Mittal USA, Inc.			Date/Time Received: 08/24/2016 09:35						
Work Order Number:	16H1697		Recei	Received by: Nicole Rainwater					
Checklist completed by	V: 8/24/2016 10:16:00AM	Nicole Rainwater	Revie	wed by:	8/24/2	2016	KAZ	,	
		Carrier Name: Microba	ac						
	Cooler ID: Default Cooler		Con	tainer/Te	mp Blank	Tempe	rature:	3.5° C	
After-Hour Arrival? Shipping container/cooler in good condition? Custody seals intact on shipping container/cooler? Custody seals intact on sample containers? COC present? COC included sufficient client identification? COC included sufficient sample collector information? COC included a sample description? COC agrees with sample labels? COC identified the appropriate matrix? COC included date of collection? COC included time of collection? COC identified the appropriate number of containers? Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples are preserved, are the preservatives identified?			Yes		No N		Not Present Not Present Not Present		
	If No, adjusted l	ov?							
Samples received on Samples properly pre	quested analyses? linquished and received? ice?		Yes Yes Yes Yes	\ \ \ \ \	No No No No	N	o VOA vials su	ıbmitted	<u> </u>
Cooler Comments:									
ANY "NO" EVALUA	— — — — — — — — — — — — — — — — — — —	eint) REOUIRES CLIENT	— — NOTII	- — — FICATIO	- — — ON.				
	Client Sample ID	Comments			71 (•				
16H1697-01	16-1								
16H1697-02	16-2								
16H1697-03	16-3								
16H1697-04	16-4								
16H1697-05	16-1D								
16H1697-06	16-2D								
16H1697-07	16-3D								
1611607.08	16 AD	I							

Microbac Laboratories, Inc.

Page

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Work Order No.: 16H2149

September 8, 2016

Arcelor Mittal USA, Inc. 250 W US Highway 12 Burns Harbor, IN 46304-9745

Re: Dock Wall Inspection

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 20 sample(s) on 8/31/2016 9:40:00AM for the analyses presented in the following report as Work Order 16H2149.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

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We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Carry Hadgala

Carey Gadzala Project Manager



WORK ORDER SAMPLE SUMMARY

Date: Thursday, September 8, 2016

Client: Arcelor Mittal USA, Inc.
Project: Dock Wall Inspection

Lab Order: 16H2149

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16H2149-01	16-6		08/30/2016 10:05	8/31/2016 9:40:00AM
16H2149-02	16-6D		08/30/2016 10:20	8/31/2016 9:40:00AM
16H2149-03	16-7		08/30/2016 10:35	8/31/2016 9:40:00AM
16H2149-04	16-7D		08/30/2016 10:42	8/31/2016 9:40:00AM
16H2149-05	16-8		08/30/2016 10:55	8/31/2016 9:40:00AM
16H2149-06	16-8D		08/30/2016 11:00	8/31/2016 9:40:00AM
16H2149-07	16-9		08/30/2016 11:20	8/31/2016 9:40:00AM
16H2149-08	16-9D		08/30/2016 11:27	8/31/2016 9:40:00AM
16H2149-09	16-10		08/30/2016 11:47	8/31/2016 9:40:00AM
16H2149-10	16-10D		08/30/2016 11:55	8/31/2016 9:40:00AM
16H2149-11	16-11		08/30/2016 12:06	8/31/2016 9:40:00AM
16H2149-12	16-11D		08/30/2016 12:08	8/31/2016 9:40:00AM
16H2149-13	16-12		08/30/2016 12:22	8/31/2016 9:40:00AM
16H2149-14	16-12D		08/30/2016 12:24	8/31/2016 9:40:00AM
16H2149-15	16-13		08/30/2016 12:30	8/31/2016 9:40:00AM
16H2149-16	16-13D		08/30/2016 12:32	8/31/2016 9:40:00AM
16H2149-17	16-14		08/30/2016 12:42	8/31/2016 9:40:00AM
16H2149-18	16-14D		08/30/2016 12:50	8/31/2016 9:40:00AM
16H2149-19	16-15		08/30/2016 13:05	8/31/2016 9:40:00AM
16H2149-20	16-15D		08/30/2016 13:12	8/31/2016 9:40:00AM



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-6
 Work Order/ID:
 16H2149-01

 Sample Description:
 Sampled:
 08/30/2016
 10:05

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

Analyses Certs AT Result MDL RL Qual Units DF Analyzed

 Method: EPA 350.1 Rev 2.0
 Analyst: GRIEFF

 Nitrogen, Ammonia as N
 Prep Date/Time: 09/05/2016 09:05

 Nitrogen, Ammonia (As N)
 ei
 A
 2.9
 0.054
 0.10
 mg/L
 1
 09/06/2016 11:41



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-6D
 Work Order/ID:
 16H2149-02

Sample Description: Sampled: 08/30/2016 10:20

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/05/2016 09:05 A 2.7 0.054 0.10 mg/L 09/06/2016 11:47 Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-7 Work Order/ID: 16H2149-03 **Client Sample ID:**

08/30/2016 10:35 **Sample Description:** Sampled:

Matrix: Aqueous Received: 08/31/2016 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/05/2016 09:05 A 2.3 0.054 0.10 mg/L 09/06/2016 11:49 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-7D
 Work Order/ID:
 16H2149-04

Sample Description: Sampled: 08/30/2016 10:42

 Matrix:
 Aqueous

 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 2.4 0.054 0.10 mg/L 09/06/2016 11:51 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-8
 Work Order/ID:
 16H2149-05

 Sample Description:
 Sampled:
 08/30/2016
 10:55

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

Analyses Certs AT Result MDL RL Qual Units DF Analyzed

Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF

 Nitrogen, Ammonia as N
 Prep Date/Time: 09/06/2016 07:28

 Nitrogen, Ammonia (As N)
 ei
 A 2.8
 0.054
 0.10
 mg/L
 1
 09/06/2016 11:52



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-8D
 Work Order/ID:
 16H2149-06

Sample Description: Sampled: 08/30/2016 11:00

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 2.7 0.054 0.10 mg/L 09/06/2016 11:58 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-9

 Work Order/ID:
 16H2149-07

 Sample Description:
 Sampled:
 08/30/2016
 11:20

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

Analysis Di Ovel Heite DE Analysis

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 2.2 0.054 0.10 mg/L 09/06/2016 12:04 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-9D
 Work Order/ID:
 16H2149-08

Sample Description: Sampled: 08/30/2016 11:27

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Prep Date/Time: 09/06/2016 07:28 Nitrogen, Ammonia as N A 2.5 0.054 0.10 mg/L 09/06/2016 12:06 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-10
 Work Order/ID:
 16H2149-09

Sample Description: Sampled: 08/30/2016 11:47

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 2.1 0.054 0.10 mg/L 09/06/2016 12:08 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-10D
 Work Order/ID:
 16H2149-10

Sample Description: Sampled: 08/30/2016 11:55

Matrix: Aqueous Received: 08/31/2016 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 2.2 0.054 0.10 mg/L 09/06/2016 12:10 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-11
 Work Order/ID:
 16H2149-11

Sample Description: Sampled: 08/30/2016 12:06

Matrix: Aqueous Received: 08/31/2016 9:40

Analyses Certs AT Result MDL RL Qual Units DF Analyzed

 Analyses
 Certs
 AT
 Result
 MDL
 RL
 Qual
 Units
 DF
 Analyzed

 Method: EPA 350.1 Rev 2.0
 Analyst: GRIEFF

 Nitrogen, Ammonia as N

 Nitrogen, Ammonia (As N)
 ei
 A
 0.94
 0.054
 0.10
 mg/L
 1
 09/06/2016 12:12



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-11D
 Work Order/ID:
 16H2149-12

Sample Description: Sampled: 08/30/2016 12:08

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 1.0 0.054 0.10 mg/L 09/06/2016 12:14 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-12
 Work Order/ID:
 16H2149-13

Sample Description: Sampled: 08/30/2016 12:22

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Prep Date/Time: 09/06/2016 07:28 Nitrogen, Ammonia as N A 0.91 0.054 0.10 mg/L 09/06/2016 12:16 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-12D
 Work Order/ID:
 16H2149-14

Sample Description: Sampled: 08/30/2016 12:24

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 1.1 0.054 0.10 mg/L 09/06/2016 12:18 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-13
 Work Order/ID:
 16H2149-15

Sample Description: Sampled: 08/30/2016 12:30

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Prep Date/Time: 09/06/2016 07:28 Nitrogen, Ammonia as N A 1.0 0.054 0.10 mg/L 09/06/2016 12:20 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-13D
 Work Order/ID:
 16H2149-16

Sample Description: Sampled: 08/30/2016 12:32

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Prep Date/Time: 09/06/2016 07:28 Nitrogen, Ammonia as N A 1.2 0.054 0.10 mg/L 09/06/2016 12:22 Nitrogen, Ammonia (As N) ei



Analytical Results Date: Thursday, September 8, 2016

Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-14 Work Order/ID: 16H2149-17 **Client Sample ID:**

08/30/2016 12:42 **Sample Description:** Sampled:

08/31/2016 9:40 Matrix: Aqueous Received:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/06/2016 07:28 A 1.3 0.054 0.10 mg/L 09/06/2016 12:28 Nitrogen, Ammonia (As N) ei



Analytical Results Date: Thursday, September 8, 2016

Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

Client Sample ID: 16-14D **Work Order/ID:** 16H2149-18

 Sample Description:
 Sampled:
 08/30/2016
 12:50

 Matrix:
 Aqueous
 Received:
 08/31/2016
 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Prep Date/Time: 09/06/2016 11:35 Nitrogen, Ammonia as N A 0.90 0.054 0.10 mg/L 09/06/2016 13:01 Nitrogen, Ammonia (As N) ei



Analytical Results Date: Thursday, September 8, 2016

Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

Client Sample ID: 16-15 **Work Order/ID:** 16H2149-19

Sample Description: Sampled: 08/30/2016 13:05

Matrix: Aqueous **Received:** 08/31/2016 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Prep Date/Time: 09/07/2016 07:55 Nitrogen, Ammonia as N A 0.41 0.054 0.10 mg/L 09/08/2016 11:26 Nitrogen, Ammonia (As N) ei



Analytical Results Date: Thursday, September 8, 2016

Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-15D
 Work Order/ID:
 16H2149-20

Sample Description: Sampled: 08/30/2016 13:12

Matrix: Aqueous Received: 08/31/2016 9:40

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Analyst: GRIEFF Method: EPA 350.1 Rev 2.0 Nitrogen, Ammonia as N Prep Date/Time: 09/07/2016 07:55 A 0.40 0.054 0.10 mg/L 09/08/2016 11:31 Nitrogen, Ammonia (As N) ei



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL

b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL

b* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

ICSA = Interference Check Standard "A" BLK = Method Blank DUP = Method Duplicate ICSAB = Interference Check Standard "AB" BS = Method Blank Spike BSD = Method Blank Spike Duplicate MSD = Matrix Spike Duplicate MS = Matrix Spike ICB = Initial Calibration Blank ICV = Initial Calibration Verification CCB = Continuing Calibration Blank CCV = Continuing Calibration Verification CRL = Client Required Reporting Limit OPR = Ongoing Precision and Recovery Standard PDS = Post Digestion Spike SD = Serial Dilution

QCS = Quality Control Standard

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- i Kansas Dept Health & Env. NELAP (#E-10397)



COOLER INSPECTION Client Name: Arcelor Mittal USA, Inc.	Date/Time Rec	Date:	Thursday, September 8, 2016 08/31/2016 09:40
Work Order Number: 16H2149	Received by:	Nicole	Rainwater
Checklist completed by: 8/31/2016 10:55:00AM Dave Bryant	Reviewed by:	8/31/2	2016 CAG
Carrier Name: Microb	oac		
Cooler ID: Default Cooler	Container/Te	emp Blank	Temperature: 0.5° C
After-Hour Arrival? Shipping container/cooler in good condition? Custody seals intact on shipping container/cooler? Custody seals intact on sample containers? COC present? COC included sufficient client identification? COC included sufficient sample collector information? COC included a sample description? COC agrees with sample labels? COC identified the appropriate matrix? COC included date of collection? COC included time of collection? COC identified the appropriate number of containers? Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? If the samples are preserved, are the preservatives identified?	Yes	No N	Not Present Not Present Not Present V Not Present V
COC included the requested analyses? COC signed when relinquished and received? Samples received on ice? Samples properly preserved? Voa vials for aqueous samples have zero headspace? Cooler Comments:	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No	No VOA vials submitted

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.



Sample ID	Client Sample ID	Comments
16H2149-01	16-6	
16H2149-02	16-6D	
16H2149-03	16-7	
16H2149-04	16-7D	
16H2149-05	16-8	
16H2149-06	16-8D	
16H2149-07	16-9	
16H2149-08	16-9D	
16H2149-09	16-10	
16H2149-10	16-10D	
16H2149-11	16-11	
16H2149-12	16-11D	
16H2149-13	16-12	
16H2149-14	16-12D	
16H2149-15	16-13	
16H2149-16	16-13D	
16H2149-17	16-14	
16H2149-18	16-14D	
16H2149-19	16-15	
16H2149-20	16-15D	

Possible Hazard Identification [] Hazardous Non-Hazardous Radioactive Sample Disposition [] Dispose as appropriate [] Return [] Archive Comments To be completed by Microbac

Temperature Upon Receipt (°C)	Relinquished By (signature)	Date/Time	Received By (signature)
1-0-0-5=0-5	baldlost	8-30-162/1D	The state of the s
Samples Received on Ice?	Relinquished By (signature)	Date/Time	Received By (signature)
Yes No N/A		2/21/11 2	4/11/11/14/
	Relinquished By (stanature).	Date /Time	- MMUUL

Yes

[] Level II

[] Level III CLP-like

[] Level IV CLP-like

For Lab Use Only

0

-03 -04

- 06

- 07 -08 - 09

rev.6/18/15

Date/Time

⊗ MICROB		Submitted to: Merrillville, IN 46410 Tel: 219-769-8378 Fax: 219-769-1664					India Tel: 3	West 85tl napolis, 17-872-1: 317-872-1	IN 4627 375	3	Chain of Custody Record Number 136079 Instructions on back									
Client Name DYCELOT MA	tal Bui	r ns 4	ar.	DU	Projec	# <u>)</u>	OCKNO	all Ins	spe	JHON!	-	Tu	marou	nd Tim	ne				Re	port Type
Address					Locat	ion					Rout	ine (5 to	7 bus	iness da	ys)		Besults Only [] Level II			
City, State, Zip					PO#						[] RUS						[] Le		•	[] Level III CLP-like
Contact					Comp	liance l	Monitoring? []	Yes [] No									[] Le	vel IV		[] Level IV CLP-like
l'elephone #					(1)Age	ncy/Pro	ogram						(need	ded by)		-	[]EI			.,
Sampled by (PRINT) Devid	EKK	ens			_	Samp	oler Signature	Dand	Q,	M	~/			Samp	ler Ph	one#	21	95	808	9099
Send Report via [] Mail []	Telephone	[] Fax (f	ax #)								De	-mail (a	ddress))						· · · · · · · · · · · · · · · · · · ·
* Matrix Types: Soil/S	Solid (S), Sludg	ge, Oil, W	Vipe, I	Orinkin	g Water	(DW)	, Groundwater	(GW), Surfac	e Wate	r (SW), V	Vaste Wat	er (WW), Oth	er (speci	fy)					
** Preservative Types: (1) H	1403, (2) 1123	, (J) I	1CL, (4) NaO	n, (3) Z	THE W	etate, (6) Meth	anol, (/) Sodi	um Bis	Reque		Thiosul	tate, (9) Hexan	e, (U)	Unpres	erved		 ,	For Lab Use Oni
Client Sample II)		Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Analys Preserv Types	es ative	NEW TOWN			//	//	//	//		16 42 149
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14-121)								12:24 D	1											- 14
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16-13 1							<u>-</u>	12:327	۱ (- 16
<u>16-14</u>	-						12.42	E	_}											-17
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16-15								1:05P	1											- 19
16-15 D				ľ				1.12	1	Ü										- 20
Possible Hazard Identification Comments	[] Hazardo l'o be comple			Hazard	ous [] Radi	oactive		S	umple Di	sposition	[]I	Dispose	as appi	topriat	e []	Return	[]A	rchive	
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Sam	les Received	on Ice?			Relin	juishe	d By (signatu	•	1 1	/Time			Rece	ived By	(sign	ature)	//	//		Date/Fime /
Yes	No ody Seals Int		N/A			XX				21/16	8,.0	سرم د	D 1				17			12118 00
Yes			N/A		Kelin	quisho	ed By (signatu	re) /	Date O	Time /	209	40	Rece	iyed M	gign	ature		<u> </u>	_	Date/Three
rev.6/18/15	1,10		-1/22				<u>, - </u>		l	- // 8	, 0 i		<i>y</i>	سيس		<u> </u>	<u>~~</u>	Page	7	of 7 000



Work Order No.: 16I0272

September 14, 2016

Arcelor Mittal USA, Inc. 250 W US Highway 12 Burns Harbor, IN 46304-9745

Re: Dock Wall Inspection

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 22 sample(s) on 9/7/2016 9:33:00AM for the analyses presented in the following report as Work Order 16I0272.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Carry Hackpala

Carey Gadzala Project Manager



WORK ORDER SAMPLE SUMMARY

Date: Wednesday, September 14, 2016

Client: Arcelor Mittal USA, Inc.
Project: Dock Wall Inspection

Lab Order: 1610272

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
1610272-01	16-16		09/06/2016 09:59	9/7/2016 9:33:00AM
1610272-02	16-16D		09/06/2016 09:59	9/7/2016 9:33:00AM
1610272-03	16-17		09/06/2016 10:33	9/7/2016 9:33:00AM
1610272-04	16-17D		09/06/2016 10:33	9/7/2016 9:33:00AM
1610272-05	16-18		09/06/2016 10:50	9/7/2016 9:33:00AM
1610272-06	16-18D		09/06/2016 10:50	9/7/2016 9:33:00AM
1610272-07	16-19		09/06/2016 11:08	9/7/2016 9:33:00AM
1610272-08	16-19D		09/06/2016 11:08	9/7/2016 9:33:00AM
1610272-09	16-20		09/06/2016 11:20	9/7/2016 9:33:00AM
1610272-10	16-20D		09/06/2016 11:20	9/7/2016 9:33:00AM
1610272-11	16-21		09/06/2016 11:37	9/7/2016 9:33:00AM
1610272-12	16-21D		09/06/2016 11:37	9/7/2016 9:33:00AM
1610272-13	16-22		09/06/2016 12:02	9/7/2016 9:33:00AM
1610272-14	16-22D		09/06/2016 12:02	9/7/2016 9:33:00AM
1610272-15	16-23		09/06/2016 13:04	9/7/2016 9:33:00AM
1610272-16	16-23D		09/06/2016 13:04	9/7/2016 9:33:00AM
1610272-17	16-24		09/06/2016 13:20	9/7/2016 9:33:00AM
1610272-18	16-24D		09/06/2016 13:20	9/7/2016 9:33:00AM
1610272-19	16-25		09/06/2016 13:54	9/7/2016 9:33:00AM
1610272-20	16-25D		09/06/2016 13:54	9/7/2016 9:33:00AM
1610272-21	16-26		09/06/2016 14:16	9/7/2016 9:33:00AM
1610272-22	16-26D		09/06/2016 14:16	9/7/2016 9:33:00AM



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-16
 Work Order/ID:
 16l0272-01

 Sample Description:
 Sampled:
 09/06/2016
 9:59

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

Analyses Certs AT Result MDL RL Qual Units DF Analyzed

Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF

 Nitrogen, Ammonia as N
 Prep Date/Time: 09/10/2016 07:10

 Nitrogen, Ammonia (As N)
 ei
 A 1.4
 0.054
 0.10
 mg/L
 1
 09/13/2016 14:51



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-16D
 Work Order/ID:
 16l0272-02

Sample Description: Sampled: 09/06/2016 9:59

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/10/2016 07:10 Nitrogen, Ammonia as N 09/13/2016 14:57 A 1.7 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-17
 Work Order/ID:
 1610272-03

Sample Description: Sampled: 09/06/2016 10:33

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/10/2016 07:10 Nitrogen, Ammonia as N 09/13/2016 14:59 A 1.2 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-17D
 Work Order/ID:
 1610272-04

Sample Description: Sampled: 09/06/2016 10:33

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/10/2016 07:10 Nitrogen, Ammonia as N A 1.2 0.054 0.10 mg/L 09/13/2016 15:01 Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-18 Work Order/ID: 1610272-05 **Client Sample ID:**

09/06/2016 10:50 **Sample Description:** Sampled: 09/07/2016 9:33

Received: Matrix: Aqueous

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N A 0.24 0.054 0.10 mg/L 09/12/2016 15:00 Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-18D Work Order/ID: 1610272-06 **Client Sample ID:**

09/06/2016 10:50 **Sample Description:** Sampled: 09/07/2016 9:33

Received: Matrix: Aqueous

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N A 0.25 0.054 0.10 mg/L 09/12/2016 15:02 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-19

 Work Order/ID:
 16l0272-07

Sample Description: Sampled: 09/06/2016 11:08

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 13:41 A 0.58 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-19D
 Work Order/ID:
 1610272-08

Sample Description: Sampled: 09/06/2016 11:08

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N A 0.60 0.054 0.10 mg/L 09/13/2016 13:43 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-20
 Work Order/ID:
 16l0272-09

Sample Description: Sampled: 09/06/2016 11:20

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units **Analyses** Certs Qual DF Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N A 0.45 0.054 0.10 mg/L 09/13/2016 13:45 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-20D

 Work Order/ID:
 1610272-10

Sample Description: Sampled: 09/06/2016 11:20

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 13:47 A 0.41 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-21 Work Order/ID: 1610272-11 **Client Sample ID:**

09/06/2016 11:37 **Sample Description:** Sampled: 09/07/2016 9:33

Matrix: Aqueous Received:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N A 0.53 0.054 0.10 mg/L 09/13/2016 13:49 Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-21D Work Order/ID: 1610272-12 **Client Sample ID:**

09/06/2016 11:37 **Sample Description:** Sampled: 09/07/2016 9:33

Matrix: Aqueous Received:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 13:51 A 0.42 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-22

 Work Order/ID:
 16l0272-13

 Sample Description:
 Sampled:
 09/06/2016
 12:02

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

Matrix: Aqueous Received: 09/07/2016

ΑT Result MDL RL Units **Analyses** Certs Qual DF Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 13:53 A 0.33 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-22D Work Order/ID: 1610272-14 **Client Sample ID:**

09/06/2016 12:02 **Sample Description:** Sampled: Received: 09/07/2016 9:33 Aqueous

Matrix:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 13:55 A 0.31 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-23 Work Order/ID: 1610272-15 **Client Sample ID:**

09/06/2016 13:04 **Sample Description:** Sampled:

09/07/2016 9:33 Matrix: Aqueous Received:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 13:57 A 2.7 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-23D
 Work Order/ID:
 1610272-16

 Sample Description:
 Sampled:
 09/06/2016 13:04

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 14:06 A 2.6 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-24 Work Order/ID: 1610272-17 **Client Sample ID:**

09/06/2016 13:20 **Sample Description:** Sampled: 09/07/2016 9:33 Aqueous Received:

Matrix:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/12/2016 08:35 Nitrogen, Ammonia as N 09/13/2016 14:08 A 1.9 0.054 0.10 mg/L Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.
Client Project: Dock Wall Inspection

 Client Sample ID:
 16-24D
 Work Order/ID:
 16l0272-18

 Sample Description:
 Sampled:
 09/06/2016
 13:20

 Matrix:
 Aqueous
 Received:
 09/07/2016
 9:33

Analyses Certs AT Result MDL RL Qual Units DF Analyzed

 Method: EPA 350.1 Rev 2.0
 Analyst: GRIEFF

 Nitrogen, Ammonia as N
 Prep Date/Time: 09/12/2016 11:25

 Nitrogen, Ammonia (As N)
 ei
 A 1.5
 0.054
 0.10
 mg/L
 1
 09/13/2016 14:10



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-25 Work Order/ID: 1610272-19 **Client Sample ID:**

09/06/2016 13:54 **Sample Description:** Sampled: 09/07/2016 9:33

Received: Matrix: Aqueous

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/13/2016 08:00 Nitrogen, Ammonia as N A 4.7 0.054 0.10 mg/L 09/13/2016 12:59 Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-25D Work Order/ID: 1610272-20 **Client Sample ID:**

09/06/2016 13:54 **Sample Description:** Sampled: 09/07/2016 9:33

Matrix: Aqueous Received:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/13/2016 08:00 Nitrogen, Ammonia as N A 5.0 0.054 0.10 mg/L 09/13/2016 13:01 Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-26 Work Order/ID: 1610272-21 **Client Sample ID:**

09/06/2016 14:16 **Sample Description:** Sampled: 09/07/2016 9:33

Matrix: Aqueous Received:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/13/2016 08:00 Nitrogen, Ammonia as N A 4.3 0.054 0.10 mg/L 09/13/2016 13:03 Nitrogen, Ammonia (As N) ei



Arcelor Mittal USA, Inc. Client: **Dock Wall Inspection Client Project:**

16-26D Work Order/ID: 1610272-22 **Client Sample ID:**

09/06/2016 14:16 **Sample Description:** Sampled: 09/07/2016 9:33

Matrix: Aqueous Received:

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: GRIEFF Prep Date/Time: 09/13/2016 08:00 Nitrogen, Ammonia as N A 4.8 0.054 0.10 mg/L 09/13/2016 13:05 Nitrogen, Ammonia (As N) ei



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

- B = Detected in the associated method Blank at a concentration above the routine RL
- b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL
- b* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

ICSA = Interference Check Standard "A" BLK = Method Blank DUP = Method Duplicate ICSAB = Interference Check Standard "AB" BS = Method Blank Spike BSD = Method Blank Spike Duplicate MS = Matrix Spike MSD = Matrix Spike Duplicate ICB = Initial Calibration Blank ICV = Initial Calibration Verification CCB = Continuing Calibration Blank CCV = Continuing Calibration Verification CRL = Client Required Reporting Limit OPR = Ongoing Precision and Recovery Standard SD = Serial Dilution

PDS = Post Digestion Spike

QCS = Quality Control Standard

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- i Kansas Dept Health & Env. NELAP (#E-10397)



COOLER INSPECTION		Date:	Wednesday, September 14, 2016
Client Name: Arcelor Mittal USA, Inc.	Date/Time Rec	eeived:	09/07/2016 09:33
Work Order Number: 16I0272	Received by:	Nicole	Rainwater
Checklist completed by: 9/7/2016 10:38:00AM Nicole Rainwater	Reviewed by:	9/7/20	016 CAG
Carrier Name: Microba	c		
Cooler ID: Default Cooler	Container/Te	mp Blank	a Temperature: 2.2° C
After-Hour Arrival? Shipping container/cooler in good condition? Custody seals intact on shipping container/cooler? Custody seals intact on sample containers? COC present? COC included sufficient client identification? COC included sufficient sample collector information? COC included a sample description? COC agrees with sample labels? COC identified the appropriate matrix? COC included date of collection? COC included time of collection? COC identified the appropriate number of containers? Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? If the samples are preserved, are the preservatives identified?	Yes	No N	Not Present Not Present Not Present V Not Present V
COC included the requested analyses? COC signed when relinquished and received? Samples received on ice? Samples properly preserved? Voa vials for aqueous samples have zero headspace? Cooler Comments:	Yes \checkmark Yes \checkmark Yes \checkmark Yes \checkmark Yes \checkmark	No No No No	No VOA vials submitted

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.



Sample ID	Client Sample ID	Comments
16I0272-01	16-16	
16I0272-02	16-16D	
16I0272-03	16-17	
16I0272-04	16-17D	
16I0272-05	16-18	
16I0272-06	16-18D	
16I0272-07	16-19	
16I0272-08	16-19D	
16I0272-09	16-20	
16I0272-10	16-20D	
16I0272-11	16-21	
16I0272-12	16-21D	
16I0272-13	16-22	
16I0272-14	16-22D	
16I0272-15	16-23	
16I0272-16	16-23D	
16I0272-17	16-24	
16I0272-18	16-24D	
16I0272-19	16-25	
16I0272-20	16-25D	
16I0272-21	16-26	
16I0272-22	16-26D	

Tumaround Time Report Type Location Interpretation Project	02/2 >elorMittal - E ck Wall Inspe	MICROBAC® Submitted to:	250 West 84th Drive [] Mertillville, IN 46410 Tel: 219-769-8378 Fax: 219-769-1664		Indianapolis, I Tel: 317-872-13	5713 West 85th Street Indianapolis, IN 46278 Tel: 317-872-1375 Fax: 317-872-1379		Chain of Custody Record Number 136082		
	ey Ga Surns	ne AMBH	Project	roject bockwall Swuple		Turnaround Time Report Type				
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	bor, ™	Zip	PO #							
# (ORINT) PALY C. L. Co.	Z		Compliance	Monitoring [] Ves. []	No	[] KOOII (hour	y IAD)			
(PRINT)		#	1			(needed by)			[] Level IV CLP-like	
Mai: Telephone Pex (6x #) Maints Types: Soil/Soile (S), Sholge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Water Water (WW), Other (specify)		y (PRINT) Patrocia Kostr				Sampler Phone #				
* Matrix Types Solf/Solf (S), Shalley, Ol, Wipe, Damklang Water (WW), Groundware (WW), Serfice Water (WW), Other (Specify) * Preservative Types: (1) HNO3, (2) H2SO4, (3) HCI, (4) NaOH, (5) Zine Acetum, (6) Methanol, (7) Sodium Bioinfane, (8) Sodium Thioroldine, (9) Heaves, (1) Unpreserval Client Sample ID		rt via [] Mail [] Telephone [] Fax (fax #)								
		* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drink	ing Water (DW	Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)						
Client Sample ID		* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) Na	OH, (5) Zinc A	Acetate, (6) Methanol, (7)	Sodium Bisulfate, (8)	Sodium Thiosulfa	te, (9) Hexane, (U) Unpres	erved		
		**	omposite iltered	Date Collected	Analyse Preserva Types *	es ative			For Lab Use Only	
10-17	1/0-	11	 			20 1	-{-{-			
	1/0-	160				204 5				
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16-18	110-	170	 							
	16-1					1,				
16-19D	16-1		-	; <u> </u>			-			
1/6 - 20 1/20 1/3	110-	10	.	1 1		10		 		
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To be completed by Microbac Temperature Upon Receipt (°C) Relinquished By Lignature) Date/Time Plul 1432cs Samples Received on Ice? Relinquished By Lignature) Fraceived By (signature) Date/Time Received By (signature) Date/Time Plus 1450 Plus 1450 Date/Time Plus 1450 Plu	_		rdous [] Rad		Sample Dis		spose as appropriate []]	Return [] Archive	70	
Samples Received on Ice? Relinquished By (signature) Plu 14 1453 Received By (signature) Date/Time Yes No N/A Relinquished By (signature) Date/Time Plu 14 1453 Received By (signature) Date/Time Received By (signature) Date/Time Yes No N/A Relinquished By (signature) Plu 14 1453 Autolu Lina By (signature) Date/Time	Commer									
Yes No N/A Relinquished By (signature) Yes No N/A Relinquished By (signature) Pate/Time Pate/T	2.7-0.5=2.2 Samples Received on Ice? Yes No N/A			Mush	9/4/14	9/4/14 143200			9/6/14 1452	
Yes No (N/A) Ray arrow 97/6 9:33 Micole Ceinetto 97/6				Mant	1 9/6/1	6, 1500	Ron C	<u> </u>	9/7067:35	
4/46/40		Yes No N/A			,	(9:33	Mcole (einat	5 9-7/6	

Samples [] 250 West 84th Drive

Page 28 of 30

Samples [] Chain of Custody Record 250 West 84th Drive [] 5713 West 85th Street MICROBAC® Submitted to: Merrillville, IN 46410 Indianapolis, IN 46278 Number 136084 Tel: 219-769-8378 Tel: 317-872-1375 Fax: 219-769-1664 Fax: 317-872-1379 Instructions on back 1 MBH ark Wall Client Name Project umoles **Turnaround Time** Report Type Address Location utine (5 to 7 business days) [] Level II City, State, Zip PO# [] RUSH* (notify lab) [] Level III [] Level III CLP-like Contact Compliance Monitoring? [] Yes [] No [] Level IV [] Level IV CLP-like (needed by) Telephone # (1) Agency/Program tricia Kostro Sampled by (PRINT) Sampler Phone # 219 80 8 90 9 9 Sampler Signature Send Report via ail (address) [] Mail [] Telephone [] Fax (fax #) * Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved Requested For Lab Use Only of Containers Analyses Time Collected Collected Client Sample ID Preservative Types ** Grab 1137 1202 202 1320 Possible Hazard Identification [] Hazardous Non-Hazardous [] Radioactive Sample Disposition [] Dispose as appropriate [] Return [] Archive Comments To be completed by Microbac l'emperature Upon Receipt (°C) Relinquished By (signature) Date/Time Date/Time Samples Received on Ice? Relinguished By (signature) Received By (signature) N/A

Relinquished By (signature)

Lustody Seals Intact?

Yes

Samples [] 250 West 84th Drive [] 5713 West 85th Street Chain of Custody Record MICROBAC® Submitted to: Metrillville, IN 46410 Indianapolis, IN 46278 Tel: 219-769-8378 Number 136088 Tel: 317-872-1375 Fax: 219-769-1664 Fax: 317-872-1379 Instructions on back Client Name ck Wall **Turnaround Time** Report Type Address Location Routine (5 to 7 business days) Results Only [] Level II City, State, Zip PO# [] RUSH* (notify lab) [] Level III [] Level III CLP-like Contact Compliance Monitoring? [] Yes [] No [] Level IV [] Level IV CLP-like (needed by) Telephone # (1)Agency/Program [] EDD Particia Sampled by (PRINT) Sampler Signature Sampler Phone # Send Report via [] Mail [] Telephone [] Fax (fax #) mail (address) * Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved Requested For Lab Use Only Analyses Collected Client Sample ID Preservative Types ** Grab 6w BW

Possible Hazard Identification [] Hazardous [] Non-Hazardous [] Radioactive Sample Disposition [] Dispose as appropriate [] Return [] Archive Comments To be completed by Microbac Temperature Upon Receipt (°C) Relinquished By (sign ture) Date /Time

> Samples Received on Ice? N/A No Custody Seals Intact?

Relinquished By (signature)

Received By (signature)

Date/Time

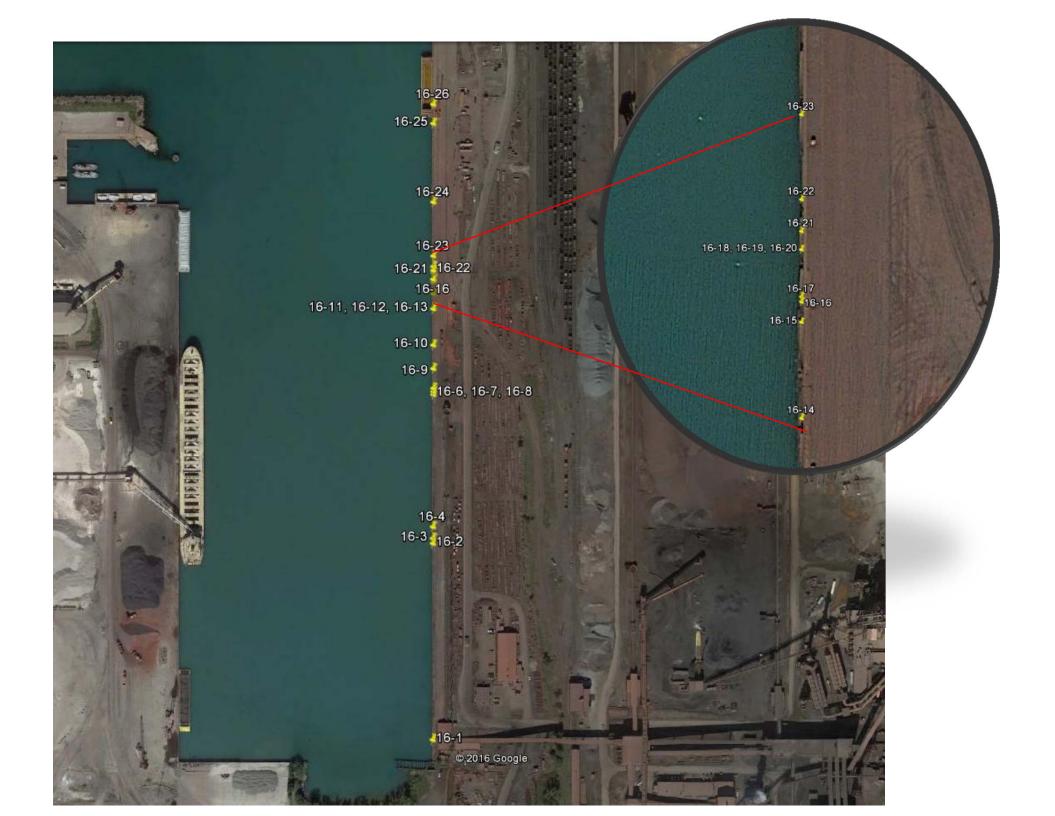
Date/Time

Page

Yes

ArcelorMittal Burns Harbor, LLC Annual Dock Wall Observation Consent Decree – Case No. 2:96-CV-96-RL-1

Attachment 3 – <u>Discharge Location Photographs</u>





Discharge 16-1, August 23, 2016



Discharge 16-2, August 23, 2016





Discharge 16-3, August 23, 2015



Discharge 16-4, August 23, 2016





Discharge 16-6, August 30, 2016



Discharge 16-7, August 30, 2016





Discharge 16-8, August 30, 2016



Discharge 16-9, August 30, 2016





Discharge 16-10, August 30, 2016



Discharges 16-11, 16-12 and 16-13, August 30, 2016





Discharge 16-14, August 30, 2016



Discharge 16-15, August 30, 2016





Discharge 16-16, September 6, 2016



Discharge 16-17, September 6, 2016





Discharge 16-18, September 6, 2016



Discharge 16-19 and 16-20, September 6, 2016



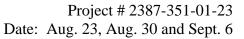


Discharge 16-21, September 6, 2016



Discharge 16-22 September 6, 2016 (labeling above sampling location on ore dock)





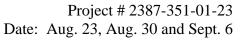


Discharge 16-23, September 6, 2016



Discharge 16-24, September 6, 2016







Discharge 16-25, September 6, 2016



Discharge 16-26, September 6, 2016

